

West Valley Nuclear Facility

Coalition on West Valley Nuclear Wastes

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Figure 13. Aerial View of SDA¹¹¹

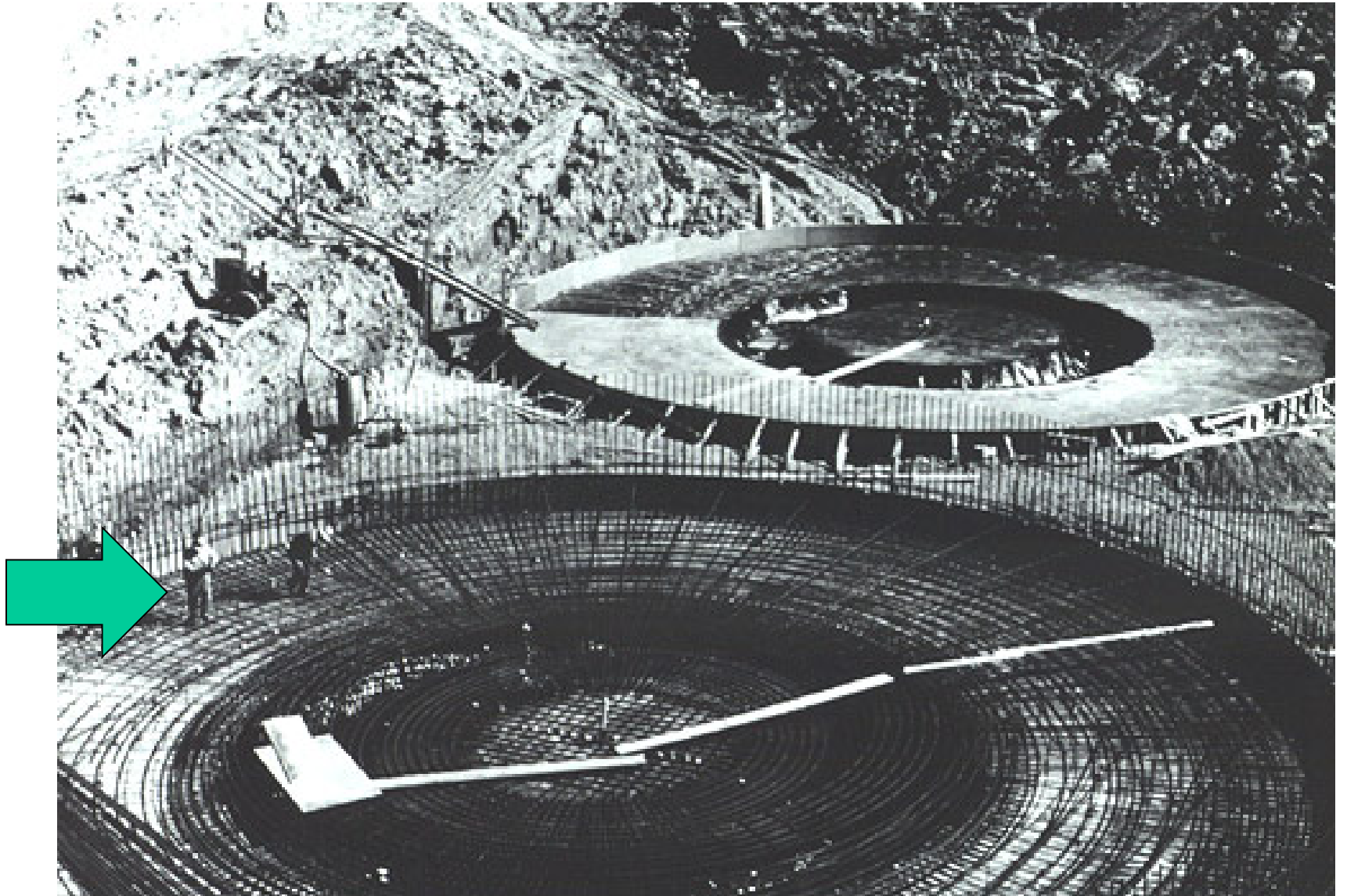
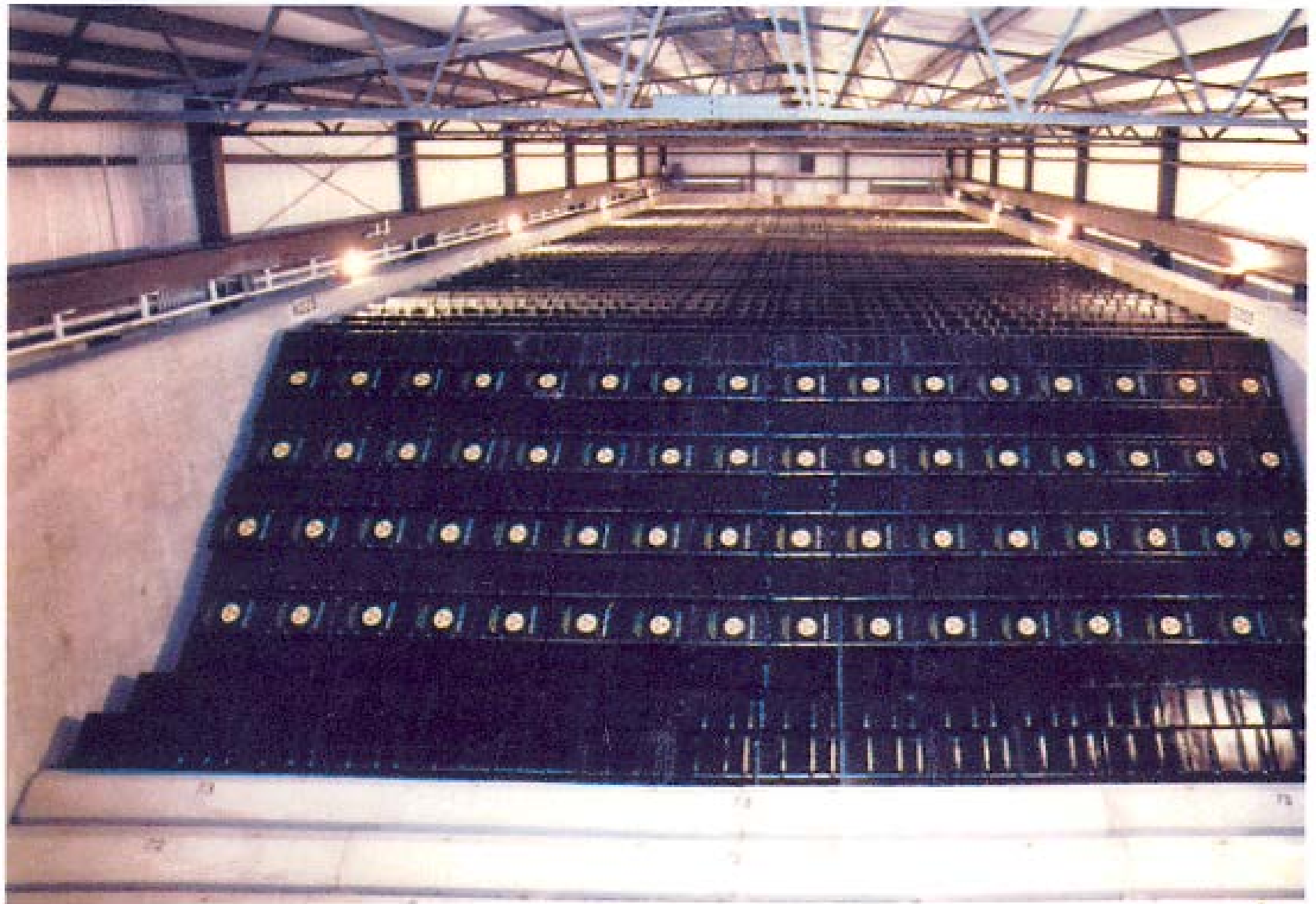




Figure 2.1
Canister containing vitrified (solidified in glass) high level waste at West Valley. (Photo from DEC.)



WIR Shipments pending to LLW facility

MELTER

10'x10'x10'

Packaged: 14'x13'x13'

159 tons 4,570 Curies

CFMT

(Concentrator Feed Make-up Tank)

Packaged 13'x14'x19'

177.5 tons

MFHT

(Melter Feed Hold Tank)

Packaged 13'x14'x16'

152.5 tons

Waste Categories

High-Level Waste

Based on source

- Nuclear Fuel
- Reprocessing
- TRU

Low-Level Waste

Not Low Risk

Complex classification
based on

- Nuclide inventory
- Half-life(s)
- Quantity
- Decay products

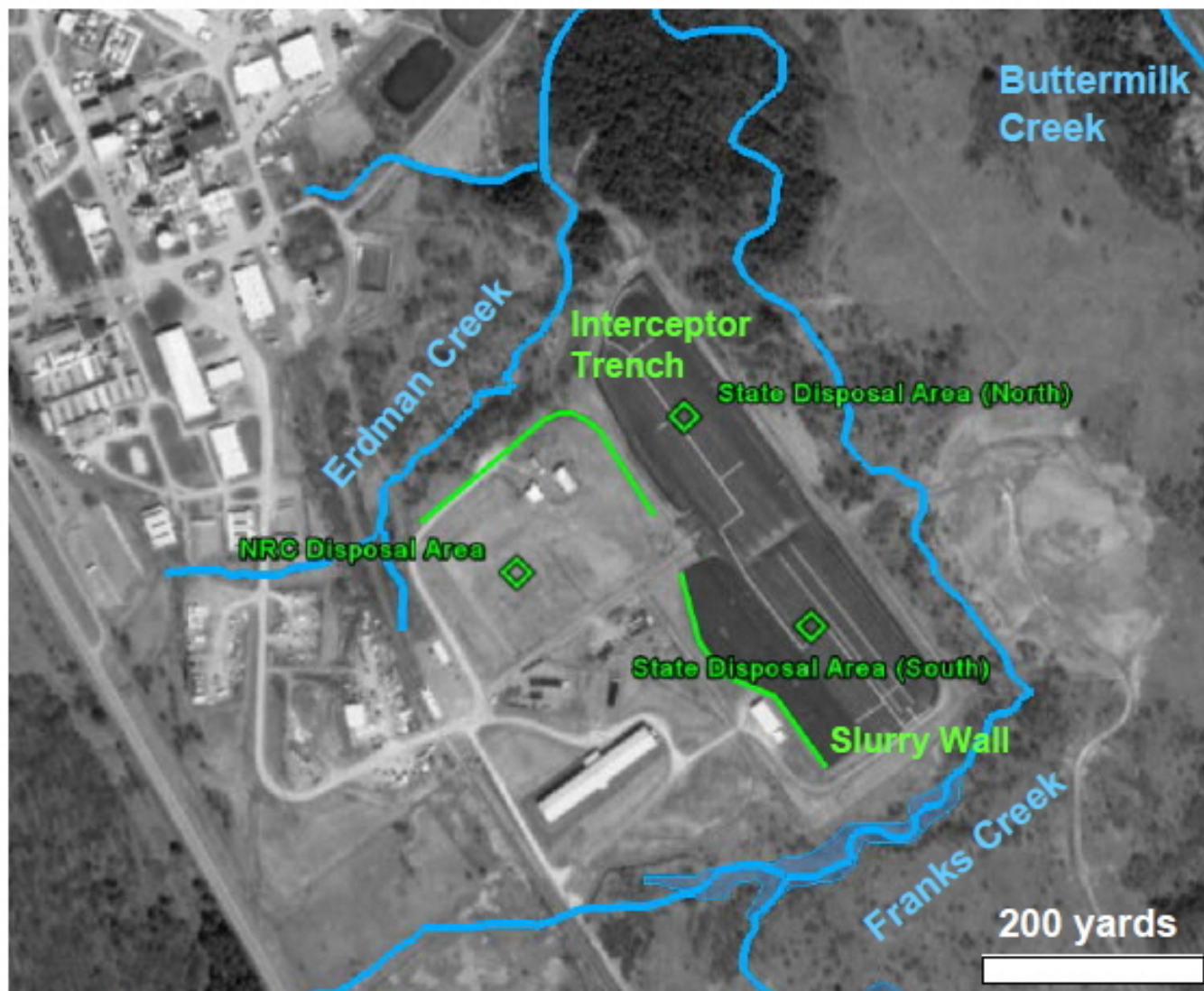


Figure 3.8
Location of NRC Disposal Area (NDA) and State Disposal Area (SDA) relative to local watershed (Erdman, Buttermilk and Franks Creek).

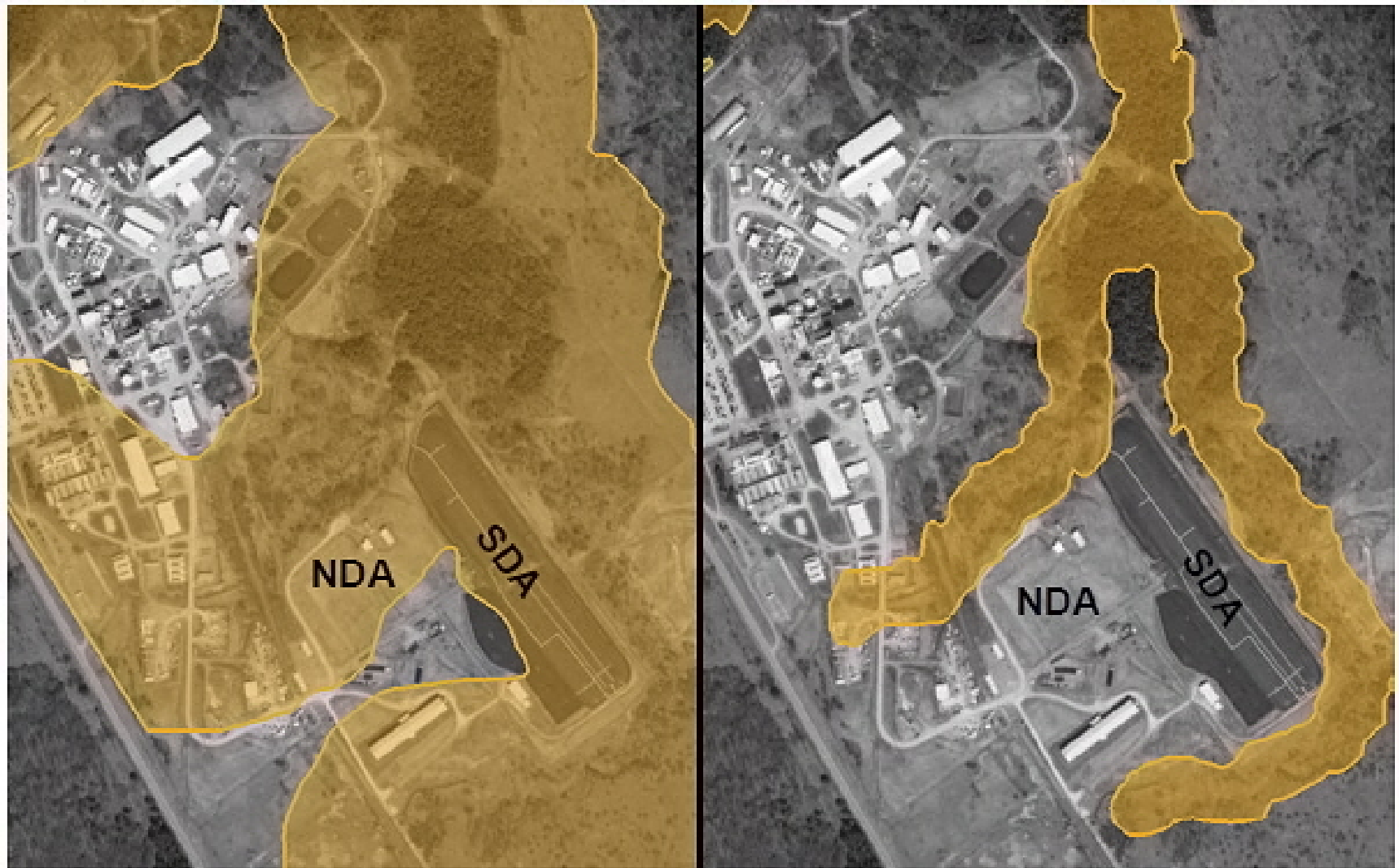


Figure 6.8

Erosion estimates from the 1996 DEIS (left) and the 2005 DEIS (right). The orange area indicates the region which would have eroded significantly in 1000 years. In the 1996 DEIS, the estimates of erosion nearly completely expose both the NRC Disposal Area (NDA) and the State licensed Disposal Area (SDA), while in the 2005 DEIS most of the waste is estimated to remain intact.²¹¹



FIGURE 7b.



11-5-2001

NASA Astronaut Photography

Background Radiation

1978 – average was **100** mRem per person

2011 – BRC* estimate **620** mRem per person

Naturally occurring radioactive elements
Additions accumulate – from fall-out,
excursions

* Blue Ribbon Commission